F68C, F68H Oil removal filter
Installation & Maintenance Instructions

Technical features

Option selector

<table>
<thead>
<tr>
<th>Bowl</th>
<th>Thread</th>
<th>Options</th>
<th>Drain</th>
<th>Bowl</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>A</td>
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Port

<table>
<thead>
<tr>
<th>1&quot;</th>
<th>1/2&quot;</th>
<th>3/4&quot;</th>
<th>1&quot;</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>D</td>
<td>C</td>
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</table>

* Only available with the F68C standard filter. ** See Norgren publication IM-900.920 for specifications and electrical wire connections of the optional electric service indicator.

Technical Data

Fluid: Compressed air

Maximum pressure: 17 bar (250 psig)

Operating temperature:
-20°C ... +65°C (0° ... +150°F)

Particulate removal: 0.01 µm

PM 2.5 formation at temperatures below +2°C (+35°F).

Air supply must be dry enough to avoid ice

Operating temperature:

- Air quality: Within ISO 8573-1, Class 1
- Maximum remaining oil content: 0.01 mg/m³ at (particulates) and Class 2 (oil content).
- Fluid: Compressed air

** Manual drain, spindle type (44) 684-84
  Manual drain, 1/4 turn (40) 619-50
  Mechanical service life indicator (1) 5797-50
  Electrical service life indicator (6) 4020-51R

Installation

1. Install yoke in air line -
   - with air flow in direction of arrow on top of yoke,
   - upstream of regulators, lubricators, and
   - as close as possible to the air supply when filter is used as a main line filter,
   - as close as possible to the device being serviced when filter is used as a final filter.
2. Connect piping to yoke ports using pipe thread sealant on male threads only.
3. Lubricate o-rings (15) with a light coat of o-ring grease, then place o-rings in grooves in body (14).
4. Place clamp ring under lugs on top of yoke.
5. Make sure arrows on yoke and filter point in the same direction, then plug filter into yoke and tighten clamp ring hand tight.
6. Turn bowl into body until arrowhead on bowl is aligned with or to the right of the arrowhead on the body.
7. Flexible tube with 3mm (0.125") minimum I.D. can be connected to the automatic drain.
8. Install a Norgren general purpose filter with a 5 µm element upstream of the oil removal filter to obtain maximum element service life.

Servicing

2. Replace filter element when pressure drop across element exceeds 0.7 bar (10 psig).
3. Disassemble in general accordance with the item numbers on exploded view. Do not remove the drains or the service indicators unless replacement is necessary. Remove and replace only if they malfunction. Do not attempt to remove rod (54), as it is cemented to body.
Cleaning
1. Element (53) cannot be cleaned. Clean lens (3, 24, 35) with warm water only. Do not submerge electrical service indicator (6) in water. Clean indicator (6) with dry, clean cloth. Clean other parts with warm water and soap.
2. Rinse and dry parts. Blow out internal passages in body (14) with clean, dry compressed air.
3. Inspect parts. Replace those found to be damaged.

Assembly
1. Lubricate o-rings, the portion manual drain body (43) that contacts the bowl, and the hole in the manual drain body that accommodates the stem of drain valve (41) with o-ring grease.
2. Assemble the unit as shown on the exploded view.
3. Assemble the liquid indicator parts (19 thru 26, 30 thru 37) to reservoir. Apply a 0.9 to 1.8 kg (2 to 4 pound) clamping force to upper and lower sight glass brackets (20, 31). Tighten screws (19, 30).
4. Arrows on indicator (3, 8) and body (14) must point in same direction.
5. Torque Table
<table>
<thead>
<tr>
<th>Item</th>
<th>Torque in N·m</th>
<th>Torque in Inch-Pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>2, 7 (Screw)</td>
<td>2,8 ... 3,9</td>
<td>25 ... 34</td>
</tr>
<tr>
<td>19, 30 (Screw)</td>
<td>1,8 ... 2,3</td>
<td>16 ... 20</td>
</tr>
<tr>
<td>45, 50 (Nut)</td>
<td>5 ... 6,2</td>
<td>44 ... 55</td>
</tr>
</tbody>
</table>
6. Turn bowl into body until arrowhead on bowl is aligned with or to the right of the arrow head on the body.

Caution
Water vapor will pass through these units and could condense into liquid form downstream as air temperature drops. Install an air dryer if water condensation could have a detrimental effect on the application.

WARNING
These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under Technical Data. Before using these products with fluids other than air, for non industrial applications, or for life-support systems consult Norgren.

Use in potentially explosive atmospheres
Code of device according EC directive 94/9/EC Ex II 2 GD c TX
- Only non-flammable gases to be used as a medium.
- Surface temperature dependant on process fluid temperature and ambient temperature - must be below the ignition temperature of the flammable gas or dust.
- Earth unit and/or pipework to avoid electrostatic discharge.
- Precautions should be taken to prevent hazard from adiabatic compression.
- Use wet cloth for cleaning.
- Protect the unit from object falling onto it.
- Avoid contact with corrosive environment.
- For servicing the unit it is recommended to carry out this work outside of the danger zone.
- For details of ignition hazard assessment contact Norgren.